

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/000897

BEST AVAILABLE COPY

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷: B65B 3/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
See below under "Electronic database consulted"

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPTO

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
DWPI: IPC : B65B 3/- with keywords: radioactive, nuclear

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5911252A (CASSEL) 15 June 1999	10
Y	The whole document	1-9
Y	US 4041994A (HORWITZ et al.) 16 August 1977	1-9
	The whole document	
A	US 4662231A (SCHAARSCHMIDT et al.) 5 May 1987	1-10
A	GB 1415804A (COMMISSARIAT A L'ENERGIE ATOMIQUE) 26 November 1975	1-10

☐ Further documents are listed in the continuation of Box C ☒ See patent family annex

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
22 July 2004

Date of mailing of the international search report
- 3 AUG 2004

Name and mailing address of the ISA/AU
AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail address: pct@ipaaustralia.gov.au
Facsimile No. (02) 6285 3929

Authorized officer

ASANKA PERERA
Telephone No : (02) 6283 2373

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/000897

BEST AVAILABLE COPY

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
See the Supplemental Box

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000897

BEST AVAILABLE COPY

Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

1. Claims 1-9 is directed to a radioactive dose dispensing device including control means to control a mix of radioactive stock solution and dilution solution. It is considered that the monitoring the radioactivity of a mix by radiation detection means comprises a first "special technical feature".
2. Claim 10 is directed to a method of automatically dispensing a dose of radioactive solution. It is considered that the steps providing the device with a radioactive stock solution and dilution solution and using a computer software interface to control the dispensed dose comprises a second "special technical feature".

These groups are not so linked as to form a single general inventive concept, that is, they do not have any common inventive features, which define a contribution over the prior art. The common concept linking together these groups of claims is controlling a mix of radioactive stock solution and dilution solution in a dispensing device. However this concept is not novel in the light of US 5911252A. Therefore these claims lack unity a posteriori.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000897

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
US	5911252				
US	4041994				
US	4662231	BE	900719	BE	902407
		BR	8505220	DE	3342470
		FR	2555746	FR	2572179
		GB	2167736	JP	60179624
		US	4665758	JP	61099836
GB	1415804	BE	805777	CH	576845
				FR	2205038
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					

BEST AVAILABLE COPY